

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
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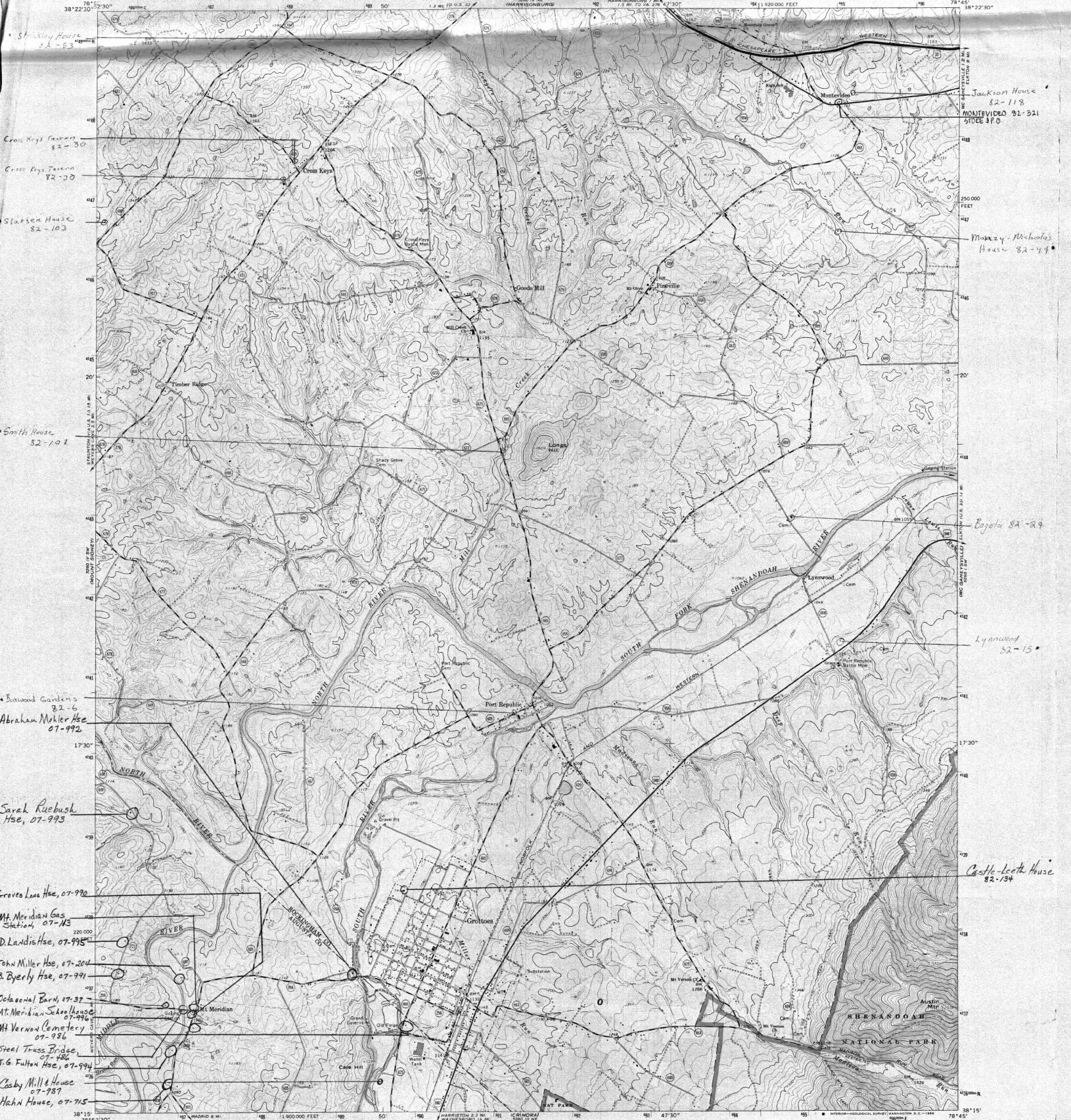
GROTTES QUADRANGLE

VIRGINIA

7.5 MINUTE SERIES (TOPOGRAPHIC)

SE/H HARRISONBURG 15 QUADRANGLE
SHEET NO. 15
RELATION NO. 531

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MAP OF GROTTES QUADRANGLE
MAY 1964

Mapped, edited, and published by the Geological Survey
Controlled by USGS, USGS, and USCE

Toponymy by photogrammetric methods from aerial
photographs taken 1963. Field checked 1964

Polyconic projection. 1927 North American datum

10,000-foot grid based on Virginia coordinate system, north zone

100,000-foot transverse Mercator grid ticks

zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is uncheckable

UTM GRID AND 1964 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20430
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SCALE 1:24,000
1 MILE
1000 6 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
1000 6 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS

DATUM IS MEAN SEA LEVEL



ROAD CLASSIFICATION
Heavy-duty
Medium-duty
Light-duty
Unimproved dirt
U.S. Route
State Route

GROTTES, VA.
SE/H HARRISONBURG 15 QUADRANGLE
N3815-W7845-7.5

1964

AMS 5200 IV SE-SERIES V634